

UNITED STATES PATENT OFFICE

UTILITY PATENT APPLICATION

HYDRAULIC/PNEUMATIC APPARATUS

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ABSTRACT OF THE INVENTION

An invented fluidic (hydraulic/pneumatic) actuation system is described wherein bidirectional, hydraulic/pneumatically driven elements of multiple components in a common hydraulic/pneumatic circuit inherently provide increases in pressure upon reaching mechanical end points limiting, arresting or stopping further mechanical movement or travel of the driven element of any particular component that switches a sequencing valve system and/or electro-hydraulic/pneumatic pressure switches for directing hydraulic/ pneumatic power to other hydraulically/pneumatically driven components in the hydraulic/pneumatic circuit in a timed, sequenced and velocity controlled manner.